

IN THE ABSTRACT:

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## ABSTRACT OF THE DISCLOSURE

A porous silicate granular material, especially as aggregate for the production of construction materials such as lightweight concrete, mortar or heat-insulating plaster containing glass and a glassy crystalline component includes 45 to 85 wt.%  $\text{SiO}_2$ , 5 to 20 wt.% alkali oxide, 5 to 30 wt. % alkaline earth oxide and 2 to 30 wt.% of other oxides such as  $\text{Al}_2\text{O}_3$  and/or  $\text{Fe}_2\text{O}_3$ . The glassy crystalline component accounts for 5 to 75 wt.% of the granular material. The glassy crystalline component of the granular material is a sinter reaction product. There is also a method of producing such a granular material in which the mixture is agglomerated at a temperature of  $20^\circ\text{C}$  to  $150^\circ\text{C}$  at normal pressure with the water vapour partial pressure being adjusted, selected or controlled as a function of time-temperature and carbon dioxide being excluded or admitted, whereby the admission of carbon dioxide is controlled by adjusting or selecting the carbon dioxide partial pressure.